Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-12-20-111** **Date: 10/11/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of Work Order to Start the Work of Providing Sign Board and Ornamental Boards A Sector and B Sector and Other Area in Ward No 04
Agency	:	Sri.N.Shivakumar No:96,KHB Colony,Gandhinagara, Yelahanka Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-21/WO/000069/2019-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-11-18
Customer ID	:	M20 CONCRETE
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/11/2018

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 CONCRETE	M20	03/11/2018	10/11/2018	150.41 X 149.13 X 149.55	22431	8.965	417.0	18.6	18.7
2	M20 CONCRETE	M20	03/11/2018	10/11/2018	150.22 X 151.03 X 151.01	22687	8.698	425.3	18.7	
3	M20 CONCRETE	M20	03/11/2018	10/11/2018	150.83 X 150.64 X 149.80	22721	8.403	425.7	18.7	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-12-20-111** **Date: 01/12/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of Work Order to Start the Work of Providing Sign Board and Ornamental Boards A Sector and B Sector and Other Area in Ward No 04
Agency	:	Sri.N.Shivakumar No:96,KHB Colony,Gandhinagara, Yelahanka Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-21/WO/000069/2019-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-11-18
Customer ID	:	M20 CONCRETE
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 CONCRETE	M20	03/11/2018	01/12/2018	149.67 X 149.13 X 151.94	22319	8.415	533.7	23.9	23.4
2	M20 CONCRETE	M20	03/11/2018	01/12/2018	150.61 X 150.93 X 150.81	22732	8.356	508.7	22.4	
3	M20 CONCRETE	M20	03/11/2018	01/12/2018	149.99 X 151.11 X 149.90	22665	8.635	541.2	23.9	

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-12-20-111 **Date: 27-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of Work Order to Start the Work of Providing Sign Board and Ornamental Boards A Sector and B Sector and Other Area in Ward No 04
Agency	:	Sri.N.Shivakumar No:96,KHB Colony,Gandhinagara, Yelahanka Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-21/WO/000069/2019-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-10-18
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	25-10-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	–
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-12-20-111** **Date: 22-11-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of Work Order to Start the Work of Providing Sign Board and Ornamental Boards A Sector and B Sector and Other Area in Ward No 04
Agency	:	Sri.N Shivakumar No:96,KHB Colony,Gandhinagara, Yelahanka Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-21/WO/000069/2019-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-10-18
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	25-10-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

Note:
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-20-111** **Date: 27-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of Work Order to Start the Work of Providing Sign Board and Ornamental Boards A Sector and B Sector and Other Area in Ward No 04
Agency	:	Sri.N.Shivakumar No:96,KHB Colony,Gandhinagara, Yelahanka Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-21/WO/000069/2019-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	24-10-18
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	24-10-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80mm	0	0	0.0	100	100
2	40 mm	217	217	1.4	98.6	90-100
3	20 mm	7453	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-12-20-111** **Date: 27-10-18**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.7	
3	Specific Gravity	2.61	–
4	Bulk Density(Loose) (Kg/l)	1.41	–
5	Bulk Density(Compacted) (Kg/l)	1.47	–
6	Water Absorption(%)	0.23	–

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-12-20-111** **Date: 27-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of Work Order to Start the Work of Providing Sign Board and Ornamental Boards A Sector and B Sector and Other Area in Ward No 04
Agency	:	Sri.N.Shivakumar No:96,KHB Colony,Gandhinagara, Yelahanka Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-21/WO/000069/2019-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-10-18
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	24-10-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-12-20-111** **Date: 27-10-18**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.53	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.95	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%,

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-12-20-111** **Date: 05/11/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of Work Order to Start the Work of Providing Sign Board and Ornamental Boards A Sector and B Sector and Other Area in Ward No 04
Agency	:	Sri.N.Shivakumar No:96,KHB Colony,Gandhinagara, Yelahanka Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-21/WO/000069/2019-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-10-18
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	29/10/2018	05/11/2018	150.52 X 150.57 X 150.48	22664	8.312	276.5	12.2	12.3
2	PCC	M15	29/10/2018	05/11/2018	150.54 X 150.45 X 150.46	22649	8.331	269.5	11.9	
3	PCC	M15	29/10/2018	05/11/2018	150.38 X 150.52 X 150.37	22635	8.345	289.7	12.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/11/2018

Lab ID	:	**CP-2018-12-20-111**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of Work Order to Start the Work of Providing Sign Board and Ornamental Boards A Sector and B Sector and Other Area in Ward No 04
Agency	:	Sri.N.Shivakumar No:96,KHB Colony,Gandhinagara, Yelahanka Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-21/WO/000069/2019-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-10-18
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	29/10/2018	26/11/2018	150.44 X 150.52 X 150.49	22644	8.312	398.5	17.6	17.9
2	PCC	M15	29/10/2018	26/11/2018	150.56 X 150.48 X 150.37	22656	8.331	405.5	17.9	
3	PCC	M15	29/10/2018	26/11/2018	150.48 X 150.55 X 150.35	22655	8.345	412.3	18.2	

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